

Enhanced Geothermal Systems (EGS) enhance subsurface permeability to allow fluid circulation through hot rock formations deep underground. EGS development uses high-pressure fluid ...

This study introduces and simulates a modified cyclic SCCO₂ injection method for geothermal energy recovery, marking the first exploration of its kind. We analyzed the SCCO₂ injection ...

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The simulation results reveal a positive correlation between the duration of water injection and the extent of permeability enhancement in reservoir fractures. After 700 days of water injection, ...

Geothermal energy is a promising solution to meet the increasing global energy demand while mitigate climate change. In recent years, the utilization of carbon dioxide (CO₂), especially ...

Geothermal energy offers consistent and reliable baseload power, similar to nuclear energy, with good efficiency. It is cleaner, more efficient, and cost-effective than burning fossil fuels, and can reduce dependence on foreign oil.

The city of Munich is blessed with a very permeable succession of Quaternary sediments that enables a high and consistent supply of groundwater flow. As such, there is great potential for ...

A novel collaborative research project aimed at utilizing CO₂ to create an artificial geothermal reservoir and extract heat by circulating CO₂ was initiated in 2021. In this study, we ...

The main influencing factors of the three horizontal wells enhanced geothermal system (EGS) are well distance, injection rate, injection temperature, fracture permeability, and fracture spacing.

It's a win for both the economy and the environment. "We're advancing this Alberta-built insulated drill pipe to unlock geothermal zones above 300 C, zones that offer 10 times more energy per ...

Quaise says it has a plan, and the technology, to drill deeper than ever before and unlock the vast geothermal power of the Earth to re-power fossil-fired electricity plants with green energy MIT spin-off Quaise is trying to use ...

Numerical models were developed to explore thermal performance of deep ground High-Temperature Reservoir Energy Storage (HT-TES) system. Simulation results showed that ...

Deep geothermal system re injection



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